Job code: 005-20-00008
Est cost: 150 lakhs

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535702

Serial No. .....

Name of work Drilling of Borewell and providing pump & motor and laying pipe line at Vinayakanagara Dwarakanagara Kathigenahalli Surrounding area in ward no. 176, Byatarayanapura

From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Work Order: BBMP/EE/BTP/WO/124/2020-21 Dt 01/10/2020 Head of Acount: PJ293 14th Finance Contractor:- M/s Kranthi Electricals prop. Sri. H.V. Nagaraj (1) Geophysical investigation & site for sinking borewell for supplying drinking water to the habitation either through the hand pump Mws or P.W.Ss by vertical electrical sounding by adopting Vernier or Schlumberger method including						

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MEASUREMENT BOOK

M. A. R. 57 (Rule 116) No. E 535703

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	reconnaissance survey of geological sounding by adopting formation of geological investigation of existing ground water in vicinity its quality, quantity & acceptability of the users including the location of site recorded depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1 mtr in consolidated formation for proper seating of casing pipes depth of drilling required to cover full depth of aquifer proposed to be tapped. probable yield and other information required including transportation of instrument & accessories to work site etc complete @ Rate 3938/each					Qty = 14 no = 55132=00	
(2)	Sinking of borewells of 165 mm dia clear using super fast hydralic rig of capacity 250 psig & above 900 CMP & above in all strata including over burdern upto 20 mm fixing of casing pipes collars & cap with necessary cutting threading & welding including transportation of rig and supporting vehicale, Crew Charges & cost of consumable etc complete including yield testing at the final depth with air working						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Compression for one hour 0 to 50m capacity is from pressure gauge shall be — 50m — @ Rate 362/Rmt					= 700 Rmt = 253400=00	
(3)	sinking of bore well from 50 — 100m @ Rate 462/Rmt					= 700 Rmt = 323400=00	
(4)	sinking of bore well from 100 — 150 m @ Rate 476/Rmt					= 700 Rmt = 333200=00	
(5)	sinking of bore well from 150 — 200m @ Rate 560/Rmt					= 700 Rmt = 392000=00	

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535704

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(6)	sinking of bore well from 200 to 250m @ Rate 662/Rmt					= 700 Rmt = 463400=00	
(7)	sinking of bore well from 250 to 300m @ Rate 731/Rmt					= 700 Rmt = 511700=00	
(8)	sinking of bore well from 300 to 350m @ Rate 862/Rmt					= 700 Rmt = 603400=00	
(9)	sinking of bore well from 350 to 400m @ Rate 940/Rmt					= 680 Rmt = 639200=00	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(10)	Supplying of ISI Make 175 mm nominal bore medium black ERW casing pipe of similar black electric resistance continuous welded tubes steel tube materials confirming to IS 1387/1993 & manufactured from hot rolled steel sheet / stripes in random length of 4 to 7 mtr bolt ends threaded confirming to IS 554/1985 one end						
						Qty - 835.00 Rmt	
	@ Rate 1440/Rmt					= 1202400=00	
(11)	providing & fixing 250 mm dia pvc pipe & as per specification & directions of Engineer in charge & locate						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535705

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	@ Rate 1153/Rmt				Qty - 140 Rmt		= 165620=00
(12)	175 mm dia M.S casing cap and Engineer incharge & locate				Qty - 14 NO		
	@ Rate 107/Each						= 1498=00
(13)	M.S casing pipe collars IC clouds & direction of Engineer incharge & locate				Qty - 140 NO		
	@ Rate 161/Each						= 22540=00

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(14)	Fabricating supplying & mounting MS box of 16 swg suitable for floor/wall mounting fully weather proof with provision for better hear description providing with hinged door cover equipped with tamper proof locking arrangement with suitable size clamps with necessary cable entry pipe with gland & box should be finished 2 coats of red oxide primer primed finally finished with approved color etc complete @ Rate 0.35/cm²					Qty. = 308000.0 Sq cm = 107800=00	

M. A. R. 57 (Rule 116) No. E 535706
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(15)	Labour charges for erection of new/repaired submersible pumpset along with 4" pipes cable including transportation and directions of Engineer @ Rate 94/L					incl charges of work Qty - 825 L = 77550=00	
(16)	Erection of Combined panel board with all necessary accessories & labour including providing CC 1:2:6 foundation bed etc complete @ Rate 496/each					panel board erection Qty - 14 No = 6944=00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(17)	Supplying & fixing of porclain fuse with cut out on existing wooden/panel using necessary nuts bolts & washer etc complete						
	@ Rate 15/ each					Qty- 4200 = 6552=00	
(18)	Supplying and laying of L.T.V.C cable having aluminium conductor pvc insulated shelled galvanised steel wire/steel tape armoured cable with pvc Outer Sheathing 1.1 KV class 4 core 16mm² cable & direction of Engineer incharge of work						
	@ Rate 177/mtr.					Qty- 528 mtr = 93456=00	

M. A. R. 57 (Rule 116) No. E 535707
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(19)	Digging of trenches of 0.6mm x 0.70 mtr wide refilling the trench to the required ground level & consolidating etc complete.						
	@ Rate 89/mtr					Qty- 525 mtr = 46992=00	
(20)	Supplying & fixing class-A GI pipes on pole/wall/drain crossing with necessary arrangements for UG cable of 1.1 KV class 40mm & directions etc complete						
	@ Rate 307/mtr					Qty- 42 mtr = 12894=00	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(21)	Supplying & fixing wiring to GI electrode for grounding conduited DC circuits. and other specified by the meter board using 40mm dia 2.9mm thick GI pipes 2.5 mtr long buried in a pit/ the pit should be filled with equal proportion of salt & charcoal 150mm around the pipe to complete depth the connections from the pipe to the conduite etc is to be established through GI wire of size as per IS1 specification 7.3.1 of IS1732 using 12mm dia bolt nuts washer & Checknuts etc complete					Qty- 14 NO	
	@ Rate 2849/each					= 39886-00	

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535708

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(22)	Supply & fixing L.T Cast iron pot heads suitable for 1.1kv class 16 mm² Al cable filled with necessary bituminous insulating compound etc complete @ Rate 292/ each					Qty- 14 No = 4088-00	
(23)	Supplying & fixing of polished wood board made of not less than 18 mm thick plank on both sides with planks made out of not more than 2 pieces & fixing the same to wall using tapered screwed wooden plugs screws etc size 20x20x2 cm the						

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MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	& direction & Engineer incharge of work @ Rate 325/each					Qty- 14 NO = 4550-00	
(24)	Borewell cap & clamp for & direction of Engineer incharge of work. @ Rate 1881/each					Qty- 14 NO = 26334-00	
(25)	Supply & delivery at site brand new texmo/simond make suitable HP deep well submersible pumpset suitable for the installation in 110mm dia borewells comprising of single stage or multistage CI pump close cupled by screw						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535709

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of stainless steel coupling to suitable HP suitable speed totally enclosed fitted in the pipe driving water squirrel cage submersible induction motor suitable for operation 17.50 HP 20 stage Qty- 4 NO @ Rate 7537/each = 30148-00						
(26)	Supply & delivery at site brand new texmo make suitable HP submersible pumpset suitable for the installation in 110 dia borewell comprising of single						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Stage or multistage CI pump close coupled by means of stainless steel coupling to suitable HP suitable speed etc complete						
	20 HP 40 Stage	Qty = 5.000					
	@ Rate 9467/each	= 47335=00					
(27)	Supply & delivery at site brand new texmo make suitable HP deep bore Submersible pumpset for the installation in 150 dia borewell comprising of single stage or multistage to suitable HP suitable speed totally enclosed & filled with						

M. A. R. 57 (Rule 116) No. E 535710
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	pure drinking water Squirrel etc complete						
	25 HP 50 stage	Qty = 5NO					
	@ Rate 131332.00/each	= 656660=00					
(28)	providing laying & Joining GI pipes conforming to IS specification & approved make with fittings such as collars bends elbows tees nipples plugs with G.I threads using white lead & Threads for Joints wherever necessary as per direction including & lead & Lift etc complete						
	@ Rate 433/Rmt	Qty = 4950 Rmts = 2143350=00					

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(29) Supply & fixing collars for GI pipes 50 mm ϕ direction & Engineer in charge @ Rate 85/each					Qty- 81 NO = 1552-468=00	
	(30) Supplying & submersible pump cable 1x3x6.0 sqmm direction & Engineer in charge @ Rate 150/mtr					Qty- 1032.7 mtr = 154905.0=00	
	(31) Supplying & delivery at site brand new/Esteel Cotton Stemmes 1/4 th portable best indigenous						

M. A. R. 57 (Rule 116) No. E
Measurement Book 535711

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	make Combine energy meter-cum-panel board unit of size 1200x600x300 mm. with mechanically strong & vermine & water proof this unit shall have two detachable doors suitable for operation on 3ph 50 Hz 380/440 volts AC supply with spring loaded lock having with a key fibs should be provided inside etc. Complete @ Rate 219.15/each					Qty- 14 NO = 3072.30=00	m. Rate Value
	(32) Supplying and delivery at brand direction of Engineer in charge @ Rate 1881/each					Qty- 14 NO = 26334=00	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(33) Supplying & delivery of brand 50mm Non Return valve & direction of Engineer incharge of work. @ Rate 1581/each					Qty- 14 NO = 26334=00	
	(34) Supplying & fixing MCB & directions of Engineer incharge of work. @ Rate 940/each					Qty- 14 NO = 13160=00	
	(35) Excavation for foundation & buildings water Supply Sanitary lines & electrical conduits either in pits or in trenches 1.5m & above in width in ordinary soil not exceeding 1.5m in depth including dressing the bottom & sides of pits						

M. A. R. 57 (Rule 116) No. E 535712
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	of trenches including the excavated soil clear from edges of excavation will lead up to 50m after breaking of clods etc completes. @ Rate 331/m³					Qty- 1715.40m² = 567797=00	
	(36) providing & installing at site of work 63mm PVC pipes of 6kg/cm² including cost of pipe & specials & labour including lowering into trenches laying true to line level & perfect finishing at joints & leads proof						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	including jointing & approved type with all labour & lift charges handling charges including cost of all materials etc complete.						
	@ Rate 412/mtr					Qty. 3812 mtr = 1570544=00	
37	Refilling available earth around pipe Cones Cables in layers not exceeding 20 cms in depth compacting each layer & watering with lead upto 50m & by ramming after watering with Like-Lift upto 1.5m including cost of all labour etc complete						
	@ Rate 184/m³					Qty. 1.715×1.715×1.715 = 2.9986 = 00	

M. A. R. 57 (Rule 116) No. E 535713
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
38	Bescom deposite					248805=00	
	Total of other SR items including GST unit Rate					5616405=00	
	Total of PWD SR 2018-19 Rates					8043964=00	
	Total					13660369=00	
	Add 12% GST for only PWD SR items					965276=00	
	Grand total					14625645=00	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(1) It is certified that the above work done satisfactorially (2) The above Bill Amount is not Claimed any of previous Bill.						

M. A. R. 57 (Rule 116) No. E 535714

Measurement Book

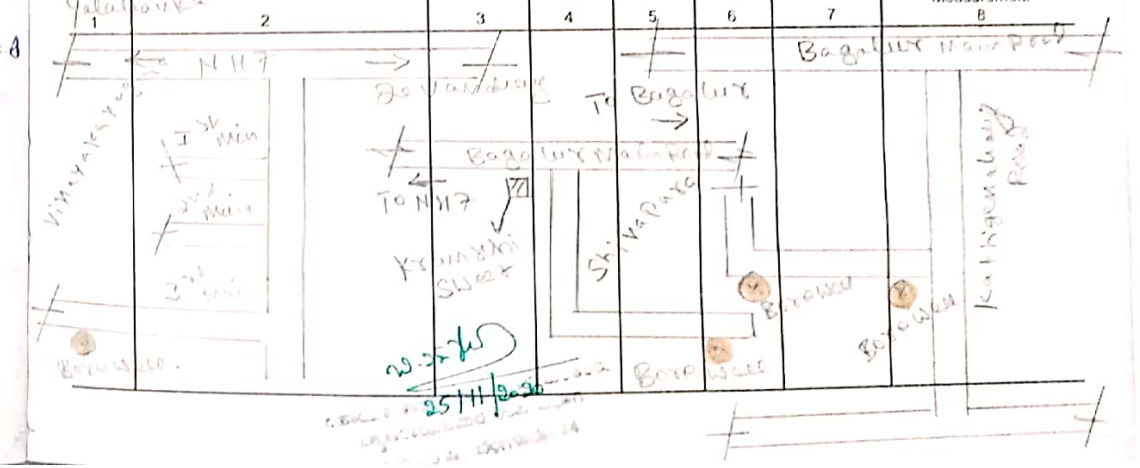
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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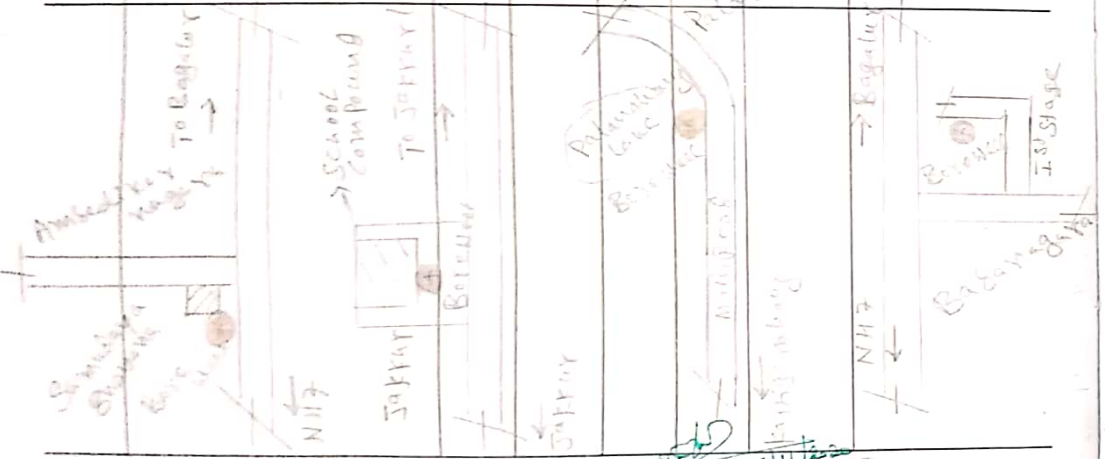
MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



M. A. R. 57 (Rule 116)

Measurement Book

No. E

535715

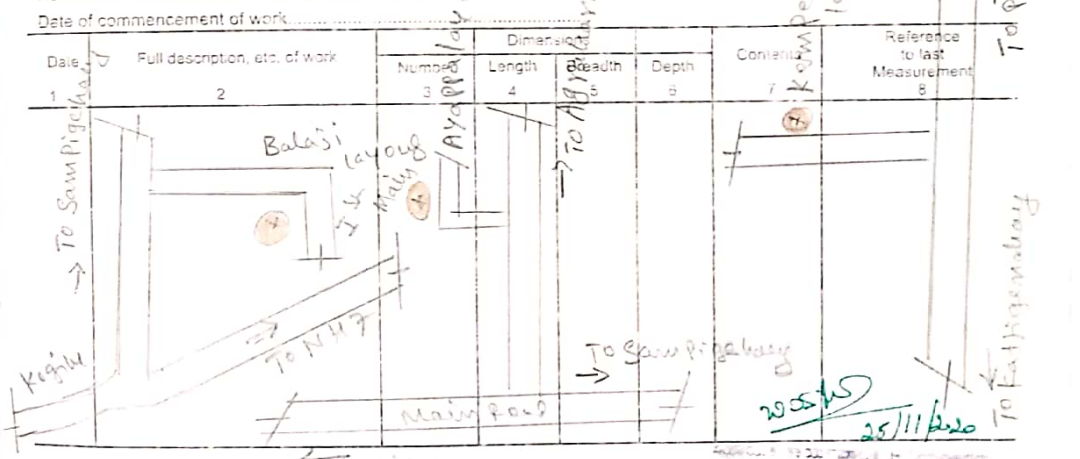
Serial No. .....

Name of work ..... From .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Serial
Name
Name
Date
Date
1

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